

IN THE CLAIMS

Please cancel claims 1 through 15 without prejudice or disclaimer of their subject matter, and newly add claims 16 through 19 as follows:

Claims 1 through 15. (Canceled)

1 16. (New) A call originating service method in a public/private common mobile
2 communication system, the method comprising :

3 providing the public/private common mobile communication system comprising a
4 plurality of mobile stations (MSs), a mobile switching center (MSC), a plurality of public
5 mobile communication network base station controllers (BSCs) connected to the MSC, a
6 *As* plurality of public mobile communication network base station transceiver subsystems
7 (BTSs) connected to each of the plurality of BSCs, each of the plurality of these BTSs
8 adapted to form a corresponding public-only cell area, a public/private communication
9 service unit connected to one of the public mobile communication network's BSCs, and a
10 private BTS connected to the public/private communication service unit, the private BTS
11 adapted to form a public/private common cell area, one of said plurality of Mss being
12 within said public/private common cell area;

13 receiving at the public/private communication service unit a call origination
14 message from the MS in the public/private common cell area through the private BTS;

15 determining whether the MS in the public/private common cell area is registered

16 for a private mobile communication service by analyzing the received call origination
17 message;

18 transmitting transparently the call origination message to one of said plurality of
19 public mobile communication network BSCs when the MS in the public/private common
20 cell area is not registered for the private mobile communication service, and determining
21 whether identification information for the private mobile communication service is
22 included in the call origination message when the MS in the public/private common cell
23 area is registered for the private mobile communication service; and

A 24 transmitting transparently the call origination message to one of said plurality of
25 public mobile communication networks BSCs when the identification information is not
26 included in the call origination message, and providing private mobile communication
27 service for the MS in the public/private common cell area when the identification
28 information is included in the call origination message.

29 17. (New) A public/private common mobile communication system adapted to
30 provide a public/private mobile communication service in association with a public land
31 mobile network (PLMN), the system comprising:

32 a plurality of mobile stations (MSs), a mobile switching center (MSC), a plurality
33 of public mobile communication network base station controllers (BSCs) connected to
34 the MSC, and a plurality of public mobile communication network base station
35 transceiver subsystems (BTSSs) connected to the BSC's, each of the plurality of public

36 mobile communication network BTSs being adapted to form corresponding public-only
37 cell areas;

38 a public/private communication service unit connected to one of said plurality of
39 public mobile communication network BSCs; and

40 a private BTS connected to the public/private communication service unit, the
41 private BTS adapted to form a public/private common cell area, the public/private
42 communication service unit receives a call origination message from a particular one of
43 the plurality of MSs located in the public/private common cell area through the private
As/ BTS, the public/private communication service unit being configured to transparently
45 transmit the call origination message to one of the plurality of public mobile
46 communication network BSCs when the call origination message is a public mobile
47 communication service request message, the public/private communication service unit
48 being configured to provide network access for a corresponding private mobile
49 communication service when the call origination message is a private mobile
50 communication service request message.

1 18. (New) A call originating service method in a public/private common mobile
2 communication system, the method comprising:

3 providing the public/private common mobile communication system comprising a
4 plurality of mobile stations (MSs), a mobile switching center (MSC), a plurality of public
5 mobile communication network base station controllers (BSCs) connected to the MSC, a

6 plurality of public mobile communication network base station transceiver subsystems
7 (BTSs) connected to each of the BSC's, each of the plurality of public mobile
8 communication network BTSs adapted to form a corresponding public-only cell area, a
9 public/private communication service unit connected to a particular one of the plurality
10 of public mobile communication network BSCs, and a private BTS connected to the
11 public/private communication service unit, the private BTS adapted to form a
12 public/private common cell area;

13 determining whether a call origination message is a public mobile communication
14 service request message or a private mobile communication service request message upon
15 receiving the call origination message that requests origination of a call from one of said
16 plurality of mobile stations located in said public/private common cell area through the
17 private BTS; and

18 transmitting transparently the call origination message to a PLMN when the call
19 origination message is a public mobile communication service request message, and
20 providing a corresponding private mobile communication service when the call
21 origination message is a private mobile communication service request message.

1 19. (New) A call originating service method in a public/private common mobile
2 communication system, the method comprising:

3 providing a public land mobile network (PLMN) comprising a base station
4 transceiver subsystem (BTS) adapted to form a public cell area that is interworked with a

5 private mobile communication network comprising a BTS adapted to form a
6 public/private common cell area enabling a subscriber to be provided with both a public
7 mobile communication service and a private mobile communication service using a
8 single mobile station in said public/private common cell area;

9 determining whether a call origination message is a public mobile communication
10 service request message or a private mobile communication service request message upon
A 11 receiving the call origination message for requesting origination of a call from a mobile
12 station in the public/private common cell area through the BTS in the private mobile
13 communication network; and

14 transmitting the call origination message to the PLMN when the call origination
15 message is a public mobile communication service request message, and providing a
16 corresponding private mobile communication service when the call origination message
17 is a private mobile communication service request message.
